Performance Data Sheet

RGA5510EXA

General Information

Model	RGA5510EXA	**Refrigerant**	R-22
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	869			
	Watts (Power)	559			
	Amps	5.87			
-23.3	Watts (Capacity)	956	833		
	Watts (Power)	568	635		
	Amps	5.96	6.33		
-20	Watts (Capacity)	1140	1010		
	Watts (Power)	584	658		
	Amps	6.09	6.55		
-15	Watts (Capacity)	1460	1310	1130	
	Watts (Power)	605	689	781	
	Amps	6.25	6.84	7.52	
-10	Watts (Capacity)	1830	1650	1450	1230
	Watts (Power)	619	715	818	936
	Amps	6.34	7.06	7.87	8.78
-6.7	Watts (Capacity)	2100	1910	1690	1440
	Watts (Power)	624	729	841	966
	Amps	6.36	7.17	8.06	9.06
-5	Watts (Capacity)	2260	2050	1820	1550
	Watts (Power)	625	735	851	981
	Amps	6.37	7.21	8.15	9.19
0	Watts (Capacity)	2750	2510	2230	1920
	Watts (Power)	622	748	878	1020
	Amps	6.33	7.30	8.37	9.54

5	Watts (Capacity)	3320	3020	2700	2340
	Watts (Power)	608	751	897	1050
	Amps	6.23	7.33	8.53	9.83
7.2	Watts (Capacity)	3590	3270	2920	2540
	Watts (Power)	598	749	903	1070
	Amps	6.16	7.32	8.58	9.93
10	Watts (Capacity)	3960	3610	3230	2810
	Watts (Power)	582	743	907	1080
	Amps	6.06	7.29	8.62	10.0
15	Watts (Capacity)	4680	4270	3820	3340
	Watts (Power)	543	725	907	1100
	Amps	5.83	7.19	8.65	10.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.253460E+03	1.958760E+02	3.985930E+00	
C2	1.291130E+02	-1.246210E+01	-9.116680E-02	
C3	-1.041580E+01	1.687780E+01	6.364300E-02	
C4	1.870470E+00	-2.989590E-01	-1.281520E-03	
C5	-7.015380E-01	3.882980E-01	2.578420E-03	
C6	-2.251020E-01	-1.271620E-01	4.822960E-04	
C7	7.771680E-03	-1.760060E-03	0.000000E+00	
C8	-1.508930E-02	2.947630E-03	0.000000E+00	
C9	-2.448520E-03	-9.312060E-04	0.000000E+00	
C10	4.669160E-04	1.250210E-03	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RGA5510EXA

General Information

Model	RGA5510EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3390	3340					
	Watts	483	512					
	Amps	5.92	6.14					
	Lb/h	46.1	45.4					
-10	Btu/h	3940	3840	3740				
	Watts	509	544	579				
	Amps	6.07	6.33	6.60				
	Lb/h	52.5	51.8	51.0				
-5	Btu/h	4540	4390	4240	4090			
	Watts	530	570	611	652			
	Amps	6.20	6.50	6.80	7.12			
	Lb/h	59.4	58.6	57.7	56.8			
0	Btu/h	5180	4990	4790	4590	4390		
	Watts	547	592	638	684	731		
	Amps	6.29	6.63	6.98	7.34	7.70		
	Lb/h	66.8	65.9	64.9	63.9	62.8		
5	Btu/h	5870	5630	5390	5140	4890		
	Watts	560	610	661	712	764		
	Amps	6.35	6.74	7.13	7.52	7.93		
	Lb/h	74.8	73.8	72.7	71.6	70.4		
10	Btu/h	6630	6330	6030	5740	5440	5140	4840
	Watts	569	624	680	736	792	850	908
	Amps	6.39	6.82	7.25	7.68	8.13	8.59	9.05
	Lb/h	83.5	82.3	81.1	79.8	78.4	77.0	75.5
15	Btu/h	7440	7090	6740	6390	6040	5680	5330
	Watts	574	634	694	755	817	879	942
	Amps	6.41	6.87	7.34	7.82	8.30	8.80	9.31
	Lb/h	92.9	91.5	90.0	88.6	87.1	85.5	83.9
20	Btu/h	8330	7920	7510	7100	6690	6290	5880
	Watts	575	640	705	771	838	905	972
	Amps	6.40	6.90	7.41	7.93	8.45	8.99	9.53
	Lb/h	103	101	99.7	98.1	96.4	94.6	92.8

25	Btu/h	9280	8810	8340	7880	7410	6950	6490
	Watts	573	643	713	783	855	926	999
	Amps	6.37	6.91	7.46	8.01	8.58	9.15	9.74
	Lb/h	114	112	110	108	106	104	102
30	Btu/h	10300	9780	9250	8730	8200	7680	7160
	Watts	568	642	717	792	868	945	1020
	Amps	6.32	6.90	7.48	8.08	8.68	9.29	9.92
	Lb/h	126	124	121	119	117	115	113
35	Btu/h	11400	10800	10200	9650	9060	8480	7900
	Watts	560	639	718	798	878	959	1040
	Amps	6.25	6.87	7.49	8.12	8.76	9.41	10.1
	Lb/h	138	136	134	131	129	126	124
40	Btu/h	12600	12000	11300	10600	10000	9350	8710
	Watts	550	633	717	801	886	971	1060
	Amps	6.16	6.82	7.48	8.15	8.83	9.52	10.2
	Lb/h	152	149	146	144	141	138	135
45	Btu/h	13900	13200	12500	11700	11000	10300	9590
	Watts	537	624	712	801	890	980	1070
	Amps	6.06	6.75	7.45	8.16	8.88	9.60	10.3
	Lb/h	167	164	160	157	154	151	148
50	Btu/h	15300	14500	13700	12900	12100	11300	10600
	Watts	522	613	706	799	892	986	1080
	Amps	5.94	6.67	7.41	8.15	8.91	9.67	10.4
	Lb/h	183	179	175	172	168	165	162
55	Btu/h	16800	15900	15000	14200	13300	12500	11600
	Watts	504	600	697	794	892	990	1090
	Amps	5.81	6.58	7.35	8.14	8.92	9.72	10.5
	Lb/h	199	195	191	188	184	180	176

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.685549E+03	1.917649E+02	3.651362E+00	7.316521E+01
C2	2.192553E+02	-5.090718E+00	-5.108059E-02	1.839731E+00
C3	-1.883642E+01	4.462344E+00	3.326887E-02	-8.077097E-02
C4	1.447843E+00	-7.095084E-02	-4.909448E-04	1.638027E-02
C5	-1.143798E+00	9.991621E-02	8.462241E-04	-4.620124E-03
C6	4.603020E-03	-1.172690E-03	-1.921334E-05	1.404984E-04
C7	6.200309E-03	3.021148E-04	2.096035E-06	6.904463E-05
C8	-4.753515E-03	-1.736470E-04	-8.746337E-07	-5.573742E-05
C9	9.078552E-04	1.130569E-05	-1.262244E-07	1.182131E-05
C10	-5.726949E-05	1.173468E-05	1.939049E-07	-1.546910E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RGA5510EXA

General Information

Model	RGA5510EXA	**Refrigerant**	R-22
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	100V ~ 50HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	698			
	Watts (Power)	450			
	Amps	7.32			
-23.3	Watts (Capacity)	770	672		
	Watts (Power)	457	514		
	Amps	7.37	7.64		
-20	Watts (Capacity)	922	813		
	Watts (Power)	469	534		
	Amps	7.46	7.80		
-15	Watts (Capacity)	1180	1060	911	
	Watts (Power)	483	560	633	
	Amps	7.55	7.99	8.52	
-10	Watts (Capacity)	1490	1340	1160	976
	Watts (Power)	492	580	667	752
	Amps	7.60	8.15	8.78	9.49
-6.7	Watts (Capacity)	1720	1550	1350	1130
	Watts (Power)	494	591	686	781
	Amps	7.61	8.23	8.93	9.71
-5	Watts (Capacity)	1840	1670	1460	1220
	Watts (Power)	495	595	695	795
	Amps	7.61	8.26	9.00	9.81
0	Watts (Capacity)	2250	2050	1790	1510
	Watts (Power)	493	603	716	831
	Amps	7.57	8.33	9.17	10.1

5	Watts (Capacity)	2720	2480	2180	1840
	Watts (Power)	485	606	732	861
	Amps	7.49	8.35	9.30	10.3
7.2	Watts (Capacity)	2950	2690	2370	2000
	Watts (Power)	480	605	736	872
	Amps	7.44	8.35	9.34	10.4
10	Watts (Capacity)	3250	2970	2620	2230
	Watts (Power)	472	603	740	884
	Amps	7.36	8.33	9.38	10.5
15	Watts (Capacity)	3850	3530	3130	2660
	Watts (Power)	453	593	743	900
	Amps	7.20	8.27	9.43	10.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.347340E+03	1.815550E+02	5.770930E+00	
C2	9.470820E+01	-4.742910E+00	-7.461010E-02	
C3	1.429880E+01	9.747230E+00	4.788490E-02	
C4	1.415620E+00	-8.790260E-02	-8.682890E-04	
C5	6.072270E-02	6.142460E-02	2.096560E-03	
C6	-6.908490E-01	2.400220E-02	4.014410E-04	
C7	6.454860E-03	-9.883180E-05	0.000000E+00	
C8	-8.216030E-03	-7.674430E-04	0.000000E+00	
C9	-1.015540E-02	2.132030E-03	0.000000E+00	
C10	3.658560E-03	-1.002590E-04	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature